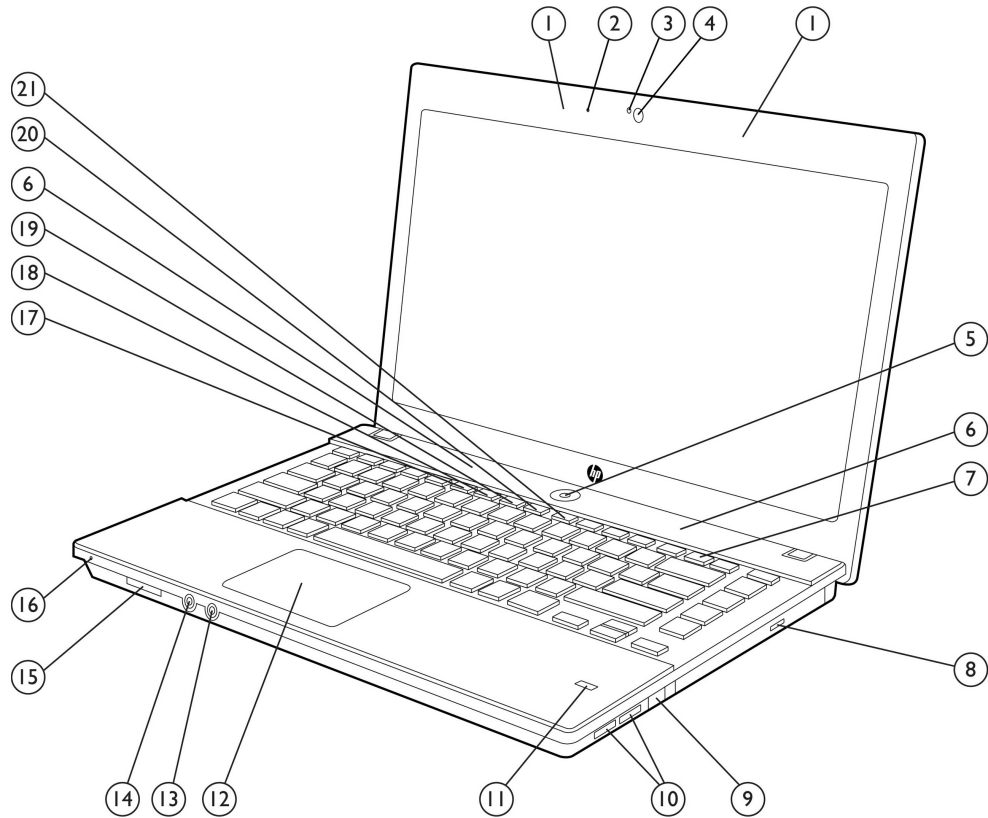
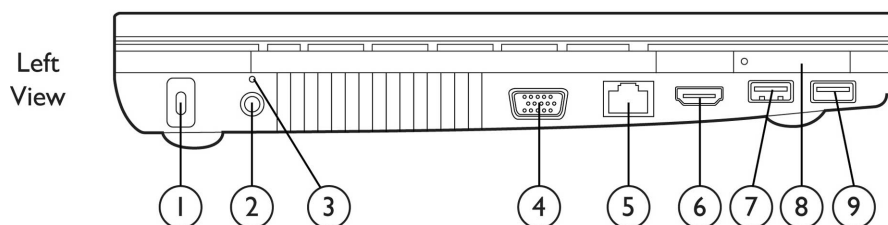


## Overview



- |  |   |
|--|---|
| 1. WLAN antennas                           | 12. ClickPad with left and right ClickPad buttons |
| 2. Integrated microphone                   | 13. Stereo microphone in                          |
| 3. Webcam LED (works with optional webcam) | 14. Stereo headphone/line out                     |
| 4. Optional 2 MP webcam                    | 15. Media Card Reader                             |
| 5. Power button with LED indicator         | 16. Hard drive activity LED indicator             |
| 6. Stereo speakers                         | 17. HP QuickLook 3 button with LED indicator      |
| 7. Wireless switch with LED indicator      | 18. HP QuickWeb button with LED indicator         |
| 8. Optical drive (select models)           | 19. Volume mute button                            |
| 9. Optional RJ-11/modem port               | 20. Volume down button                            |
| 10. (2) USB 2.0 ports                      | 21. Volume up button                              |
| 11. Optional HP Fingerprint Sensor         |   |

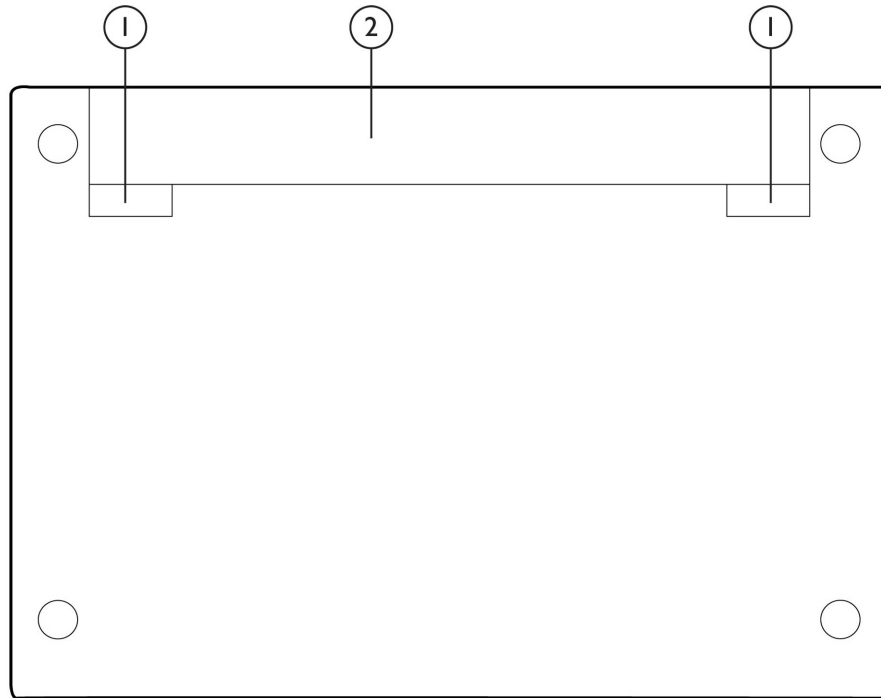


- |                         |                         |
|-------------------------|-------------------------|
| 1. Kensington Lock slot | 6. HDMI port            |
| 2. Power connector      | 7. Combo eSATA/USB port |



### Overview

- |   |                        |
|---|------------------------|
| 3. Battery charging LED indicator             | 8. ExpressCard/34 slot |
| 4. VGA connector (external monitor/projector) | 9. USB 2.0 port        |
| 5. RJ-45/Ethernet port                        |                        |



BottomView

- |                            |                |
|----------------------------|----------------|
| 1. Battery release latches | 2. Battery bay |
|----------------------------|----------------|

### At A Glance

- Genuine Windows 7 versions, SUSE Linux
- Thin, lightweight design with brushed aluminum finish for durability and style
- Full-sized spill-resistant keyboard
- VISION Pro Technology from AMD
- AMD Phenom™ II Quad-Core Mobile Processor, AMD Turion™ II Dual-Core Mobile Processor, AMD Athlon™ II Dual-Core Processor for Notebook PCs
- ATI Mobility Radeon HD 530v discrete graphics or HD 5470 or HD 6370 discrete graphics
- Optional HP Fingerprint Sensor for single sign-on
- HP Face Recognition for HP ProtectTools for easy logins using the optional integrated 2 MP webcam
- Choice of 9-cell or 6-cell battery to customize weight and run-time to your needs
- Corel Home Office productivity suite for word processing, spreadsheets, and presentations (trial version)
- ArcSoft TotalMedia Suite for playing, creating, and editing video and audio files
- New keyboard function keys for play, rewind, and fast-forward of video and audio files
- HP DayStarter (calendar display while Windows starts), HP QuickLook 3 (quick access to e-mail, calendar, contacts and tasks), HP QuickWeb
- HP Power Assistant to conserve power, increase battery run-time, monitor power needs, report workforce power consumption
- HP Connection Manager 3.1
- Flexible wireless connectivity options:



### Overview

- Integrated Broadcom 802.11 b/g/n wireless LAN module
  - Optional Bluetooth® v2.1
- Widescreen LED-backlit HD display with 16:9 aspect ratio, BrightView optional  
HP ProBook 4425s: 14.0-inch diagonal
- Enhanced security features including HP ProtectTools with Central Management, optional HP Fingerprint Sensor, HP Face Recognition, Computrace LoJack Pro ready, HP SpareKey, HP Disk Sanitizer, optional HP Privacy Filter
- HDMI port for connecting to high-resolution displays; combo eSATA/USB port



Standard Features (availability may vary by country)

Processors	AMD Phenom II Quad-Core Mobile Processor P920 (1.6 GHz, 2MB L2 cache) AMD Turion II Dual-Core Mobile Processor P520 (2.3 GHz, 2MB L2 cache) AMD Athlon II Dual-Core Processor P320 (2.1 GHz, 1MB L2 cache) <b>NOTE:</b> Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode. <i>* Intel's numbering is not a measurement of higher performance.</i>	
Operating System	Preinstalled	Genuine Windows 7 Professional Edition 32* Genuine Windows 7 Professional Edition 64* Genuine Windows 7 Home Premium Edition 32* Genuine Windows 7 Home Premium Edition 64* Genuine Windows 7 Home Basic Edition 32* Genuine Windows 7 Starter 32* SUSE Linux Enterprise Desktop 11  Certified SUSE Linux Enterprise Desktop 11  <i>* System may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See: <a href="http://www.microsoft.com/windows/windows-7/">http://www.microsoft.com/windows/windows-7/</a> for details.  ** Certain Windows Vista product features require advanced or additional hardware. See: <a href="http://www.microsoft.com/windowsvista/getready/hardwarereqs.mspx">http://www.microsoft.com/windowsvista/getready/hardwarereqs.mspx</a> and <a href="http://www.microsoft.com/windowsvista/getready/capable.mspx">http://www.microsoft.com/windowsvista/getready/capable.mspx</a> for details. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit: <a href="http://www.windowsvista.com/upgradeadvisor">http://www.windowsvista.com/upgradeadvisor</a>.</i>
Chipset	AMD M880G chipset	
Graphics	Integrated graphics: ATI Mobility Radeon HD 4250 graphics controller with shared video memory Microsoft DirectX 10.1 capable  Discrete graphics: ATI Mobility Radeon HD 530v graphics controller with 512 MB dedicated video memory Microsoft DirectX 10.1 capable ATI Mobility Radeon HD 5470 graphics controller with 512 MB dedicated video memory Microsoft DirectX 11 capable ATI Mobility Radeon HD 6370 graphics controller with 1 GB dedicated video memory Microsoft DirectX 11 capable	



### Standard Features (availability may vary by country)

Display	Internal	HP ProBook 4425s: 14.0-inch diagonal LED-backlit HD anti-glare (1366 x 768 resolution) 14.0-inch diagonal LED-backlit HD BrightView (1366 x 768 resolution)
	External	Optional HP Privacy Filter Up to 32-bit per pixel color depth VGA port supports resolutions up to 2560 x 1440 at 75 Hz HDMI port supports direct connection to high-definition displays with up to 1920 x 1080 resolution and 7-channel audio with one convenient cable (not included). <b>NOTE:</b> Resolutions are dependent upon monitor capability, and resolution and color depth settings.

Memory	Standard	DDR3 PC3-8500 SDRAM (1066 MHz)* Two SODIMM slots supporting dual-channel memory 1024 MB, 2048 MB, and 4096 SODIMMs
	Maximum	Upgradeable to 8192 MB with 4096 MB SODIMMs in slots 1 and 2
	Dual-channel	Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

\* Memory speed is processor dependent.

**NOTE:** Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. Full availability of 4 GB or more of memory requires a Windows 64-bit operating system or Linux. With Windows 32-bit operating systems, the amount of usable memory is dependent upon your configuration, so that above 3 GB all memory may not be available due to system resource requirements.

Communications	Realtek Ethernet (10/100/1000 NIC)*	
	Optional 56K V.92 modem**	
	* The term "10/100/1000" or "Gigabit" Ethernet indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required. ** Designed for downloads from 56K modem compliant sources. Maximum achievable download transmission rates currently do not reach 56 KB/s, and will vary with line conditions. Modem availability is subject to country regulatory approval.	



### Standard Features (availability may vary by country)

#### Wireless Devices

Support for a broad range of secure, integrated wireless LAN and wireless WAN options featuring support for the latest industry standards.. Integrated Bluetooth is also available (factory configurable only) and can be combined with any of the supported wireless LAN and wireless WAN options.

##### All 802.11 integrated wireless LAN options

Wi-Fi certified\*

Wired Equivalent Privacy (WEP) support up to 128-bit keys

Wi-Fi Protected Access (WPA) and WPA2 support

802.1x authentication support, including EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, and LEAP

Advanced Encryption Standard (AES) support

Dual antennas integrated in the display enclosure

##### Broadcom 4313GN 802.11 b/g/n WiFi Adapter

Integrated support for 802.11 b, g, and n

Cisco Compatible Extensions support

Up to 300 mbps data rate

##### HP Integrated Module with Bluetooth Wireless Technology

Bluetooth Specification v2.1 compliant

Works with a wide range of Bluetooth devices

#### Keyboard

The HP spill-resistant keyboard is designed using a thin layer of Mylar film under the keyboard and a drain system that funnels fluid through a hole in the bottom of the notebook. This minimizes the risk of damage to sensitive components underneath. The 101/102-key compatible keyboard features a full-pitch key layout with desktop keyboard features, such as the isolated inverted-T cursor control keys, editing keys, both left and right control and alt keys, full separate numeric keypad, and 12 function keys. US and International key layouts are available. Other features include hotkeys for instant access to power conservation and brightness, and 19.05 x 19.05 mm key pitch (center-to-center spacing).

#### Pointing device

ClickPad with gestures support:

Two-finger scroll, zoom, pinch and pivot rotate, and three finger flick

**NOTE:** [Gestures not available for Linux.](#)

#### Expansion card slots

##### ExpressCard/34 slot Media Card Reader

Supports ExpressCard/34 (34 mm x 75 mm x 5 mm) card sizes

Supports SD (Secure Digital), MMC (MultiMedia Card), Memory Stick, Memory Stick Pro, Memory Stick Duo\*, xD-Picture card

\* Memory Stick Duo Adapters are required and sold separately. Inserting a Memory Stick Duo Card directly into your notebook could damage the memory card and/or notebook.



### Standard Features (availability may vary by country)

Storage	Internal Storage Device	250/320/500 GB 7200 rpm SMART SATA II Hard Drive 640 GB 5400 rpm SMART SATA II Hard Drive
	<b>NOTE:</b> Up to 15 GB is reserved for the system recovery software.	
	HP 3D DriveGuard (Windows models only)	The hard drive is mounted directly to the notebook frame, reducing the transmission of shock to the hard drive. Uses three-axis digital motion detection with intelligent sensitivity to help protect the hard drive during normal use from shock and vibration. The digital accelerometer temporarily halts all data transfer and parks the hard drive when abrupt motion is detected.
	Fixed optical drives	DVD+/-RW SuperMulti DL LightScribe Drive
<hr/>		
Interfaces	VGA	One
	HDMI	One
	Stereo microphone in	One
	Stereo headphone/line out	One
	Power connector	One
	RJ-11/modem (optional)	One
	RJ-45/Ethernet	One
	Combo eSATA/USB 2.0	One
	USB 2.0	Three
	LED status indicators	Eight
<hr/>		
Audio/Visual	HD audio (HP Premier Sound) Integrated stereo speakers Integrated digital microphone Stereo headphone/line out Stereo microphone in	
	Optional 2 MP webcam <ul style="list-style-type: none"><li>• Supports videoconferencing and still image capture</li><li>• Improved quality for video streaming and still image capture (1600x1200 resolution)</li><li>• Up to 30 frames/sec</li><li>• Fixed focus lens</li><li>• 16-bit true color (camera sensor up to UXGA resolution)</li></ul>	



## Standard Features (availability may vary by country)

### Software

#### Preinstalled software with Windows operating system

HP Recovery Manager (available with Windows 7 only)  
 HP Support Assistant (available with Windows only)  
 HP ProtectTools Security Manager  
 HP Face Recognition  
 HP QuickLaunch Buttons Software  
 HP QuickLook 3  
 HP QuickWeb  
 HP Power Assistant  
 HP Connection Manager 3.1  
 HP Wireless Assistant  
 HP Day Starter  
 Corel Home Office productivity suite 60-day trial  
 Roxio Creator Business (select models)  
 ArcSoft Total Media Suite  
 Antivirus software (may vary by country)\*  
 Microsoft Office 2010 preloaded (purchase of a Product Key required to activate a full Office 2010 suite)\*  
 Norton Online Backup trial  
 HP Webcam Software (select models)  
 Skype  
 WinZip 12 trial

#### Additional software available from the web

HP SoftPaq Download Manager

\* Internet access required. May be Norton or McAfee antivirus software. First 60 days included. Subscription required for live updates afterwards.

\*\* Microsoft Office 2010 Preloaded includes reduced functionality versions of Word and Excel. Purchase of Product Key required to activate full Office 2010 suite available at participating resellers/retailers and <http://www.office.com>.

### HP Recovery Manager

Models shipped with Windows 7 or Windows Vista include HP Recovery Manager. HP Recovery Manager enables fast recovery of the factory preinstalled image if the system becomes corrupted or if important system files are accidentally deleted. Up to 15 GB of the hard drive is reserved for the system recovery software.





### Standard Features (availability may vary by country)

#### Security

##### Standard Features

HP ProtectTools Security Manager  
Face Recognition for HP ProtectTools  
One Step Login  
Enhanced Pre-Boot Security  
HP SpareKey  
HP Disk Sanitizer  
Setup Password  
Kensington Lock Slot  
Support for Computrace\* LoJack Pro for HP ProtectTools

##### Optional Features

HP Fingerprint Sensor  
HP Privacy Filter

\* The Computrace agent is shipped turned off, and must be activated by customers when they purchase a subscription with terms ranging from one to five years.

For more information on HP security solutions refer to: <http://www.hp.com/go/security>.

#### HP ProtectTools Security Manager with Central Management

HP ProtectTools Security Manager is the security platform for business notebooks and desktops. The HP ProtectTools Security Manager is an extensible client security console that delivers enhanced security capabilities through add-on software modules. The following modules are available on the hard drive (also downloadable from the web) and can be configured in Software Setup:

- Credential Manager for HP ProtectTools
- Device Access Manager for HP ProtectTools
- Drive Encryption for HP ProtectTools
- File Sanitizer for HP ProtectTools
- Privacy Manager for HP ProtectTools (Chat & Sign)
- Embedded Security for HP ProtectTools
- Computrace LoJack Pro for HP ProtectTools

HP ProtectTools is now capable of being centrally managed from a single control point. HP ProtectTools is management ready out of the box, in partnership with Digital Persona, and provides features that customers expect from a centrally managed security solution, such as user provisioning, credential reset, and system and network revocation. Central Management is available in two feature levels:

- Digital Persona Pro Enterprise: Designed for environments with Active Directory. For large businesses, as well as smaller businesses utilizing an active directory based infrastructure. Gives IT Managers the ability to create role based security policies, provision users, and create login policies based on passwords, biometrics or smart cards. Management features also include remote credential recovery in case the user forgets the password, loses the smart card, or cannot use the fingerprint reader for any reason. In addition, advanced auditing capabilities are also built in.
- Digital Persona Workgroup Manager: Designed for environments without Active Directory. This option can be used by smaller businesses as well as workgroups within large organizations. Workgroup Manager offers features similar to Digital Persona Pro Enterprise, but without active directory integration. Workgroup activation is built into HP ProtectTools, and activation of up to 5 seats is completely free.



### Standard Features (availability may vary by country)

#### Power Supply

Models with integrated graphics: External 65-watt Smart AC adapter  
6-foot (1.8-meter) power cord included; total length including external AC adapter is 12 feet (3.66 meter)

HP Fast Charge\*

\* HP Fast Charge recharges your battery up to 90% within 90 minutes when the system is off. HP Fast Charge does not apply to the HP 9-cell battery.

#### Battery

##### Primary battery

HP 9-cell (93 WHr) Li-Ion battery  
HP 6-cell (47 WHr) Li-Ion battery

#### Battery Life

##### HP ProBook 4425s

###### 9-cell battery

Up to 8 hours

###### 6-cell battery

Up to 4 hours

##### Configurations with integrated graphics

**NOTE:** Battery life will vary depending on the product model, configuration, loaded applications, features, use, wireless functionality and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See MobileMark07 battery benchmark [www.bapco.com/products/mobilemark2007](http://www.bapco.com/products/mobilemark2007) for additional details.

#### System Standby Time

Up to TBD week

#### Power Conservation

Supports enhanced Intel SpeedStep technology (allows Battery Optimized Mode, Maximum Performance Mode, or Automatic mode)

ATI PowerPlay technology

Hibernation

Standby

ACPI compliance

#### Service and Support

HP Services offers limited 1-year warranty depending on country;

1-year limited warranty on primary battery. Warranty upgrades are also available. HP Care Pack Services extend service contracts beyond the standard warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: <http://www.hp.com/go/lookuptool>.

Additional HP Care Pack Services information by product is available at:

<http://www.hp.com/hps/carepack>.

**NOTE:** Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

<http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp>.



Options (availability may vary by country)

Memory	HP 1 GB (DDR3 1333 MHz) SODIMM	AT911AA
	HP 2 GB (DDR3 1333 MHz) SODIMM	AT912AA
	HP 4 GB (DDR3 1333 MHz) SODIMM	AT913AA
<hr/>		
Storage	HP 250 GB USB Pocket Media Hard Drive	FE477AA
	HP External USB CD/DVD R/RW Drive	FS943AA
<hr/>		
Expansion	HP Basic Adjustable Stand	AL549AA
	HP USB 2.0 Docking Station	FQ834AA
	HP Essential USB 2.0 Port Replicator	AQ731AA
	HP Dual Hinge Notebook Stand	AW661AA
	HP Display & Notebook Stand	AW662AA
	HP Adjustable Display Stand	AW663AA
	HP Adjustable Dual Display Stand	AW664AA
<hr/>		
Power	65W Smart AC Adapter	ED494AA
	90W Smart AC/Auto/Air Combo Adapter	AJ652AA
	HP 65W Slim Adapter	AX727AA
	HP Smart 65W Travel AC Adapter	AU155AA
	90W Smart AC Adapter	ED495AA
	HP 6-Cell Li-Ion Primary Battery	BQ350AA
<hr/>		
Carrying Cases	HP Deluxe Nylon Backpack	RR317AA
	HP Value Nylon Case	RR314AA
	HP Universal Nylon Case	RR315AA
	HP Executive Leather Case	RR316AA
	HP Deluxe Roller Case	GD405AA
	HP Basic Backpack	AM863AA
	HP Basic Messenger	AP355AA
	HP Basic Carrying Case	AJ078AA
	HP Professional Series Carrying Case	AT886AA
	HP Professional Series Backpack	AT887AA
	HP Professional Series Messenger	AT888AA
	HP Professional Series Designer Tote	AT889AA
	HP Professional Series Slip Case	AT890AA
	HP Elite Series Designer Tote	AT891AA
	HP Elite Series Quick Case	AT892AA



*Options (availability may vary by country)*

Security	HP/Kensington MicroSaver Security Lock	PC766A
	HP Notebook Cable Lock	AY475AA
Input/Output Devices	HP USB/PS2 Optical 2-Button Scroll Mouse	DC369A
	HP USB Keyboard & Mouse Bundle	RC465AA
	HP USB Optical Travel Mouse	RH304AA
	HP Wireless Mouse	AR085AA
	HP BT Headset	AR084AA
	HP Mobile Audio Speakers	FS944AA
	HP Mobile Productivity Bundle	AQ729AA
	HP Notebook Companion Projector	AX325AA
	HP Special Edition Optical Mouse	AU094AA
	HP Premium Autofocus Webcam	KQ245AA
	Premium Digital Headset	KJ270AA
	HP Promo USB Graphics Adapter	NL571AT
Miscellaneous	HP Notebook Projection Companion	AX325AA
	HP 2 Megapixel Auto Focus Webcam	KQ245AA
	HP Digital Premium Stereo Headset	KJ270AA



## Memory

DDR3 PC3-10600 SDRAM (1066/1333MHz)\*

Two SODIMM slots supporting dual-channel memory

SODIMM sizes supported: 1024 MB, 2048 MB and 4096 MB

### Standard Memory

- 1024 MB (1024 MB x 1)
- 2048 MB (2048 MB x 1)
- 2048 MB (1024 MB x 2)
- 3072 MB (2048 MB + 1024 MB)
- 4096 MB (2048 MB x 2)
- 4096 MB (4096 MB x 1)

### Optional Memory Upgrades

Support for up to 8192 MB of memory with the installation of optional DDR3 SDRAM memory kits. Both memory slots are user accessible. Please refer to the Hardware and Software Guide for installation procedures. Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

Up to	Slot 1	Slot 2
2048 MB	1024 MB	1024 MB
2048 MB	2048 MB	empty
3072 MB	2048 MB	1024 MB
4096 MB	2048 MB	2048 MB
4096 MB	4096 MB	empty
8192 MB	4096 MB	4096 MB

\* Memory speed is processor dependent.

**NOTE:** This chart does not represent all possible memory configurations. Due to the non-industry standard nature of some third-party memory modules, we strongly recommend using only HP branded memory modules to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. Availability of 4 GB or more of memory requires a Windows 64-bit operating system or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.

### Memory Upgrades

HP 1 GB (DDR3 1333 MHz) SODIMM	AT911AA
HP 2 GB (DDR3 1333 MHz) SODIMM	AT912AA
HP 4 GB (DDR3 1333 MHz) SODIMM	AT913AA



Storage

Removable Media Drive Support

	Quantity Supported	Drive Bay
DVD+/-RW SuperMulti DL One LightScribe Drive		Fixed optical drive bay

Internal Storage Device

	Quantity Supported	Drive Bay
Hard Drives		
500 GB 7200 rpm SMART One SATA II Hard Drive		Dedicated hard drive bay
320 GB 7200 rpm SMART One SATA II Hard Drive		Dedicated hard drive bay
250 GB 7200 rpm SMART One SATA II Hard Drive		Dedicated hard drive bay
640 GB 5400 rpm SMART One SATA II Hard Drive		Dedicated hard drive bay



### Technical Specifications

System Unit	Dimensions (HxWxD)	HP ProBook 4425s: 1.07 in (at front) x 13.23 in x 9.15 in 27.0 mm (at front) x 336.0 mm x 232.4 mm	
	Weight	HP ProBook 4425s: Starting at 4.71 lb (2.14 kg) without optical drive or 5.0 lb (2.27 kg) with optical drive	
<b>NOTE:</b> Height varies depending upon where on the notebook the measurement is made. Weight varies by configuration and components. Weight includes 6-cell battery, no optical drive. Weight varies by configuration and components.			
Stand-Alone Power Requirements (AC Power)	Nominal Operating Voltage	18.5 V	
	Average Operating Power	with integrated graphics: 18.16 W with discrete graphics: 20.34 W	
	Max Operating Power	< 90 W or < 65W	
Temperature	Operating	32° to 95° F (0° to 35° C) (not writing optical) 41° to 95° F (5° to 35° C) (writing optical)	
	Non-operating	-4° to 140° F (-20° to 60° C)	
Relative Humidity	Operating	10% to 90%, non-condensing	
	Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature	
Shock	Operating	125 G, 2 ms, half-sine	
	Non-operating	200 G, 2 ms, half-sine	
Random Vibration	Operating	0.75 grms	
	Non-operating	1.50 grms	
Altitude (unpressurized)	Operating	-50 to 10,000 ft (-15.24 to 3,048 m)	
	Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)	
Industry Standard Certifications	UL	Yes	
	CSA	Yes	
	FCC Compliance	Yes	
	ENERGY STAR®	Select models*	
	EPEAT	Registered TBD in United States**	
	ICES	Yes	
	Australia / NZ A-Tick Compliance	Yes	
	CCC	Yes	
	Japan VCCI Compliance	Yes	
	MIC	Yes	
	BSMI	Yes	
	CE Marking Compliance	Yes	
	BNCL or BELUS	Yes	
	CIT	Yes	
	GOST	Yes	



### Technical Specifications

Saudi Arabian Compliance (ICCP)	Yes
SABS	Yes
UKRSERTCOMPUTER	Yes

\* Configurations of the HP ProBook 4425s and HP Probook 4525s that are ENERGY STAR qualified are identified as HP ProBook 4425s ENERGY STAR and HP Probook 4525s ENERGY STAR on HP websites and on [www.energystar.gov](http://www.energystar.gov).

\*\* EPEAT registration varies by country. See [www.epeat.net](http://www.epeat.net) for registration status by country. EPEAT status listed above applies to U.S.

**NOTE:** For accessibility information on HP products, please visit: <http://www.hp.com/accessibility>.

HP 65W Smart AC Adapter	Dimensions	4.17 x 1.85 x 1.1 in (10.6 x 4.7 x 2.8 cm)	
	Weight	0.62 lb (280 g)	
	Input	100 to 240 VAC	
		Input Efficiency	87% min at 115 VAC
		Input frequency range	47 to 63 Hz
	Output	Input AC current	1.7 A at 90 VAC, 0.85 A at 180 VAC
		Output power	65W
		DC output	18.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<11A, Over voltage protection- 29V max automatic shutdown
	Connector	3 pin/grounded, mates with interchangeable cords	
	Environmental Design	Operating temperature	32° to 104° F (0° to 40° C)
		Non-operating (storage) temperature	-4° to 149° F (-20° to 65° C)
		Altitude	0 to 10,000 ft (0 to 3,048 m)
		Humidity	20% to 80%
	EMI and Safety Certifications	Storage Humidity	10% to 90%
		CE Mark - full compliance with LVD and EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; MTBF - over 200,000 hours at 25°C ambient condition.	

**NOTE:** Unless otherwise noted, temperature limits listed in the following component specifications relate to the internal temperatures of these components and not to the environment in which the PC is operating.





### Technical Specifications

9-Cell (93 WHr) Lithium-Ion battery	Dimensions (H x W x L)	0.8 x 2.9 x 8.3 in (2.0 x 7.3 x 21.0 cm)	
	Weight	1.07 lb (0.488 kg)	
	Cells/Type	9-cell Lithium-Ion	
	Energy	Watt-hour Capacity	93 WHr
		Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 140° F (-10° to 60° C)
		Non-operating	-4° to 140° F (-20° to 60° C)
	Battery Re-Charge Time	System in OFF mode or Standby	3 to 4 hours
		System ON	4 to 6 hours (depending on system power consumption)
6-Cell (47 WHr) Lithium-Ion battery	Dimensions (H x W x L)	0.8 x 2.1 x 8.0 in (2.0 x 5.3 x 20.3 cm)	
	Weight	0.659 lb (0.299 kg)	
	Cells/Type	6-cell Lithium-Ion	
	Energy	Watt-hour Capacity	47 WHr
		Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 140° F (-10° to 60° C)
		Non-operating	-4° to 140° F (-20° to 60° C)
	Battery Re-Charge Time	System in OFF Mode or Standby	2.5 hours
		System ON	3 to 5 hours (depending on system power consumption)
		HP Fast Charge Technology	Charges the battery up to 90% within 90 minutes when system is OFF

### Displays



### Technical Specifications

14.0-inch LED HD (1366 x 768) anti-glare	Active Area (W x H)	12.74 x 7.56 in (32.4 x 19.2 cm)	
	Diagonal Size	14.0 in (35.6cm)	
	Surface Treatment	Anti-glare	
	Contrast Ratio	400:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	200 nit (typical)	
	Pixel Resolution	Pitch	0.227 mm
		Format	1366 x 768
		Configuration	RGB Stripe
	Backlight	LED	
PPI		112 ppi	
Viewing Angle		$\pm 30^\circ$ Horizontal, $\pm 10^\circ$ Vertical (minimum) 30/30/20/10 (Left/Right/Down/Up) (minimum) or 45/45/35/25 (Left/Right/Down/Up) (typical)	

14.0-inch LED HD (1366 x 768) BrightView	Active Area (W x H)	12.16 x 6.85 in (30.9 x 17.4 cm)	
	Diagonal Size	14.0 in (35.6cm)	
	Surface Treatment	BrightView (glossy)	
	Contrast Ratio	500:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	200 nit (typical)	
	Pixel Resolution	Pitch	0.227 mm
		Format	1366 x 768
		Configuration	RGB Stripe
	Backlight	LED	
PPI		112 ppi	
Viewing Angle		$\pm 30^\circ$ Horizontal, $\pm 10^\circ$ Vertical (minimum) 30/30/20/10 (Left/Right/Down/Up) (minimum) or 45/45/35/25 (Left/Right/Down/Up) (typical)	

### Internal Storage



## Technical Specifications

500 GB 7200 rpm SATA Hard Drive	Drive Weight	0.25 lbs (115g)	
	Capacity	500 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	<b>Synchronous</b> (maximum)	150 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	<b>Single Track</b>	1.5ms
		<b>Average</b>	11ms
		<b>Maximum</b>	22ms
	Rotational Speed	7200 rpm	
	Logical Blocks	976,773,168	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
	Features	ATA Security	

320 GB 7200 rpm SATA Hard Drive	Drive Weight	0.25 lbs (115g)	
	Capacity	250 GB	
	Height	0.37 in (9.5 mm) or on some models 0.28 in (7 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	<b>Synchronous</b> (maximum)	150 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	<b>Single Track</b>	1.5ms
		<b>Average</b>	11ms
		<b>Maximum</b>	22ms
	Rotational Speed	7200 rpm	
	Logical Blocks	625,142,448	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
	Features	ATA Security	



## Technical Specifications

250 GB 7200 rpm SATA Hard Drive	Drive Weight	0.25 lbs (115g)
	Capacity	250 GB
	Height	0.37 in (9.5 mm) or on some models 0.28 in (7 mm)
	Width	2.75 in (70 mm)
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ
	Transfer Rate	<b>Synchronous</b> (maximum) 150 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	<b>Single Track</b> 1.5ms
		<b>Average</b> 11ms
		<b>Maximum</b> 22ms
	Rotational Speed	7200 rpm
	Logical Blocks	488,397,168
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]
	Features	ATA Security

## Optical Drives

DVD+/-RW SuperMulti DL LightScribe Drive	Access Times	Random	< 150ms CD (typical)
			< 160 ms DVD (typical)
	Max Data Transfer Rate	24X CD-ROM	Up to 3,600 KB/s
		8X DVD	Up to 10,800 KB/s
		24X CD-R	Up to 3,600 KB/s
		16X CD-RW	Up to 2,400 KB/s
		8X DVD+R	Up to 10,800 KB/s
		8X DVD+RW	Up to 10,800 KB/s
		8X DVD-R	Up to 10,800 KB/s
		6X DVD-RW	Up to 8100KB/s
		4X - DVD+R Dual Layer	Up to 5,400 KB/s
		4X - DVD-R Dual Layer	Up to 5,400 KB/s
		5X DVD-RAM	Up to 6,750 KB/s
	Transfer Mode	UDMA Mode 5	
	Interface	Gen 1 SATA	
	Supported Media (read)	CD-DA, CD+(E)G, CD-MIDI, CD-TEXT, CD-ROM, CD-ROM XA, MIXED MODE CD, CD-I, CD-I Bridge (Photo-CD, Video CD), Multisession CD (Photo-CD, CD-EXTRA, Portfolio, CD-R, CD-RW), CD-R, CD-RW, DVD-ROM (DVD-5, DVD-9, DVD-10, DVD-18), DVD-R, DVD-RW, DVD+R, DVD+RW, DVD-RAM	
	Supported Media (write)	CD-R, CD-RW, DVD+R, DVD+RW, DVD-R, DVD-RW, DVD-RAM, LightScribe	
	Max Media Capacity (read)	8.5 GB	
	Max Media Capacity (write)	8.5 GB	



## Technical Specifications

### Transport

### Tray Loading

## Security

HP Fingerprint Sensor (optional)	Mobile Voltage Operation	3.0V-3.6V Single Supply
	Operating Temperature	32° – 158°F (0° – 70°C)
	Current Consumption @ 3.3V	Less than 70 mA peak imaging and scrolling Less than 25 mA hardware finger detection Advanced Power Management
	High-Rate Image Capture	Up to 240 image frames /sec
	ESD Resistance	IEC 61000-4-2 Level 4 ( $\pm 15$ KV)
	Detection Matrix	192 x 16 Pixels 9.7 mm x 0.81 mm 500 ppi High-Resolution Images

## Audio

Hardware	Implementation	IDT 92HD75B High Definition CODEC
	Touch-Sensitive Volume Controls	Volume up, volume down, and mute
	Full Duplex	Yes
	Microphone In	Stereo
	Headphone/Line Out	Stereo
	Integrated Microphone	Yes

Audio Output Quality	Frequency Response	20 Hz – 20 kHz
	Signal to Noise Ratio	>85 dB
	Total Harmonic Distortion	0.01%
	Noise Floor	–110 dB
	Play/Record Sampling Rate(s)	8 kHz – 48kHz
	DAC	16, 20 or 24-bit
	ADC	16 or 20-bit

Integrated Stereo Speakers	Power Rating	1.5 Watts
	Impedance	4 Ohms



## Technical Specifications

### Communications

Integrated Realtek RTL8151DH-GR 10/100/1000 NIC	<b>Ethernet Features</b>	<p>10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)</p> <p>100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30)</p> <p>1000 Mbit/s operation (1000BASE-T; IEEE 802.3z and 802.3ab; IEEE 802.3 clauses 34-42)</p> <p>Auto-Negotiation (Automatic Speed Selection)</p> <p>Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s</p> <p>IEEE 802.1p QoS (Quality of Service) Support</p> <p>IEEE 802.1q VLAN support</p> <p>IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)</p>
	<b>Power Management</b>	<p>ACPI compliant - multiple power modes</p> <p>Situation-sensitive features reduce power consumption</p> <p>Advanced link down power saving for reducing link down power consumption</p>
	<b>Performance Features</b>	<p>TCP/IP/UDP Checksum Offload (configurable)</p> <p>Large send offload and Giant send offload</p> <p>Receiving Side Scaling</p>
	<b>Manageability</b>	<p>Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only)</p> <p>PXE 2.1 Remote Boot</p> <p>Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30))</p> <p>Comprehensive diagnostic and configuration software suite</p> <p>Virtual Cable Doctor for Ethernet cable status</p>
	<b>Interface</b>	PCI Express 1.1 x1 to fully support ASPM L0s/L1 and CLKREQ
	<b>NIC Device Driver Name</b>	Realtek PCIe Gb Ethernet Family Controller
V.92 56K Data/Fax Modem	<b>Form Factor</b>	MDC 1.5 Daughtercard
	<b>Power Management Support</b>	APM Revision 1.2, ACPI
	<b>Approvals/Certifications</b>	UL, CSA, NEMKO, CCIB, Industry Canada, FCC Part 68, CTR21, FCC Part 15 Class B, Canadian ICES-003 Class B, C.I.S.P.R.22, Australian ACA, CE Mark, Other Countries
	<b>Data Mode Capabilities</b>	<p>V.92 data</p> <p>V.8bis</p> <p>V.80</p> <p>V44, V.42bis, MNP5 (Compression)</p> <p>V.42 (LAPM, MNP2-4) (Error Correction)</p> <p><b>Optional symbol rates:</b></p> <p>2800, 3429</p> <p>Asymmetric Symbol rates</p> <p><b>Synchronous primary channel data signaling rates:</b></p> <p>3600, 31200</p>



## Technical Specifications

	Automatic rate re-negotiation
	V.34
	V.32bis
	V.32
	V.23
	V.22bis
	V.22
	V.21
	Bell 212A
	Bell 103J
<b>Fax Mode Capabilities</b>	TIA/EIA-578-B (Class 1)
	T.30, T.4 (Group 3)
	V.17
	V.29
	V.27ter
	V.21 Channel 2
<b>Command Set</b>	V.250 (Partial)
	TIA-602
	Identification: +GMI, +GMM, +GMR
	Port control: +IPR, +ICF, +IFC, +ILRR
	Modulation: +MS, +MR, +MA
	Error control: +ES, +ER, +EB, +ESR, +ETBM
	Data compression: +DS, +DR
	V.251

Broadcom 4313GN  
802.11b/g/n  
WiFi Adapter

<b>Wireless LAN Standards</b>	IEEE 802.11b IEEE 802.11g IEEE 802.11n
<b>Interoperability</b>	Wi-Fi certified Cisco Compatible Extensions Program compliant with Microsoft Win7, Vista and XP (details at: <a href="http://www.hp.com/go/notebooks/WLAN">http://www.hp.com/go/notebooks/WLAN</a> )
<b>Frequency Band</b>	2.4 GHz
<b>Data Rates</b>	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: 6.5, 7.2, 13, 14.4, 19.5, 21.7, 26, 28.9, 39, 43.3, 52, 57.8, 58.5, 65, 72.2Mbps
<b>Frequency Support</b>	20 MHz: 2.4 GHz bands
<b>Modulation</b>	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
<b>Security<sup>1</sup></b>	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST.  Support for Cisco Security Features (proven compatibility with Cisco Aironet infrastructure products through the Cisco Compatible Extensions Program Version 4) with Microsoft Windows Vista and XP only.
<b>Sub-channels</b>	Multinational support with frequency bands and channels compliant to local regulations.



## Technical Specifications

Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
Network Architecture	Ad-hoc (Peer to Peer)
Models	Infrastructure (Access Point Required)
Roaming	IEEE 802.11 compliant roaming between access points
Output Power (for CCK) <sup>2</sup>	17 dBm , nominal
Output Power (for OFDM; power varies by data rate) <sup>2</sup>	15 dBm , nominal
Power Consumption	Idle associated: 250 mW avg (CLKREQ enabled) Idle unassociated: 425 mW avg Transmit/Receive 20 MHz channel: 5.5 W (max)
Power Management	ACPI compliant power management 802.11 compliant power saving mode
Receiver Sensitivity <sup>3</sup>	72.2 Mbps: -71 dBm
Antenna type	High efficiency dual band antenna with spatial diversity, usually mounted in the display enclosure
Form Factor	PCI-Express Half-MiniCard
Weight	0.013 lb (6 g)
Dimensions	0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)
Operating Voltage	3.3v +/- 10%
Temperature	Operating 14° to 149° F (-10° to 65° C) Non-operating -40° to 176° F (-40° to 80° C)
Humidity	Operating 10% to 90% (non-condensing) Non-operating 5% to 95% (non-condensing)
Altitude	Operating 0 to 10,000 ft (3,048 m) Non-operating 0 to 50,000 ft (15,240 m)
LED Activity	LED Off - Radio OFF; Solid LED On - Radio ON

1. Check latest software/driver release for updates on supported security features.
2. Maximum output power may vary by country according to local regulations.
3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CCK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
4. WLAN supplier's client utility is required for Cisco Compatible Extensions support with Microsoft Windows XP. WLAN may also be compatible with certain third-party software supplicants. WLAN supplier IHV extensions required for Cisco Compatible Extensions support for Microsoft Windows Vista and Win7.

### HP Integrated Module with Bluetooth 2.1+EDR Wireless Technology

Bluetooth Specification	2.1+EDR Compliant
Dimensions	1.18 x 0.26 x 0.13 in (30 x 6.5 x 3.25 mm)
Frequency Band	2402 to 2480 MHz
Number of Available Channels	79 (1 MHz) available channels
Data Rates and Throughput	3 Mbps data rate; throughput up to 2.17 Mbps Synchronous Connection Oriented links up to 3, 64 kbps, voice channels Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 kbps symmetric





### Technical Specifications

Transmit Power	-6 dBm to 4 dBm (Bluetooth Class II)
Receiver Sensitivity	Better than -80 dBm at 0.1 % raw bit error rate
Power Consumption	Peak (Tx) 264 mW Peak (Rx) 231 mW Sleep <1 mW
Antenna	Internally integrated within module
Range	Up 33 ft (10 m)
Electrical Interface	USB 2.0 compliant Microsoft Windows Plug and Play compliant
Bluetooth Software Supported	Broadcom Bluetooth for Windows Microsoft Windows Bluetooth Software
Link Topology	Point to Point, Multipoint Pico Nets up to 7 slaves
Security	Full support of Bluetooth Security Provisions
Power Management	Microsoft Windows ACPI, and USB Bus Support Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
Certifications	All necessary regulatory approvals for supported countries, including: FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
Temperature	Operating -4° to 158° F (-20° to 70° C) Non-operating -40° to 176° F (-40° to 80° C)
Humidity	Operating 10% to 90% Non-operating 5% to 95%
Altitude	Operating 15,000 ft (4,572 m) Non-operating 40,000 ft (12,192 m)
Bluetooth Profiles Supported	Serial Port Profile (SPP) <sup>1</sup> Service Discovery Application Profile (SDAP) Dial-Up Networking (DUN) <sup>1,2</sup> Generic Object Exchange Profile (GOEP) <sup>1,2</sup> Object Push Profile (OPP) <sup>1,2</sup> File Transfer Profile (FTP) Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP) <sup>1,2</sup> Personal Area Networking Profile (PAN) <sup>1,2</sup> Human Interface Device Profile (HID) <sup>1,2,3</sup> FAX Profile (FAX) Basic Imaging Profile (BIP) <sup>2</sup> Headset Profile (HSP) Hands Free Profile (HFP)



### Technical Specifications

Advanced Audio Distribution Profile (A2DP)

1. indicates the profile is supported by Microsoft Windows XP SP2
2. indicates the profile is part of Windows Vista

#### Environmental Data

#### Eco-Label Certifications

This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- US Energy Star
- IT ECO declaration
- EPEAT - Gold where HP registers commercial notebook products. See <http://www.epeat.net> for registration status in your country.

#### System Configuration

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Convertible Mini tower Desktop model is based on a "Typically Configured Notebook"

#### Energy Consumption

	115 VAC	230 VAC	100 VAC
Normal Operation	10.73 W	10.81 W	10.71 W
Sleep (Energy Star low power mode)	0.67 W	0.70 W	0.66 W
Off	0.44 W	0.48 W	0.46 W

#### Heat Dissipation\*

	115 VAC	230 VAC	100 VAC
Normal Operation	37 BTU/hr	37 BTU/hr	37 BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr
Off	2 BTU/hr	2 BTU/hr	2 BTU/hr

\* Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

#### Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)

##### System Fan Off

	Sound Power (LWAd, bels)	Sound Pressure (LpAm, decibels)
Idle	3.2	24.9
Fixed Disk (random writes)	3.2	29.3

System fan is usually off except when charging the battery

#### Batteries

This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:

- Mercury greater the 5ppm by weight
- Cadmium greater than 10ppm by weight

The battery type and chemistry used in the product is:

CR2032 (coin cell), Li-ion

6-cell high capacity Lithium-Ion battery (optional 8 cell available)



### Technical Specifications

#### Additional information

This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2002/95/EC.

This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC.

This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).

This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see [www.epeat.net](http://www.epeat.net)

Plastics parts weighing over 25 grams used in the product are marked per ISO 11469 and ISO1043.

This product contains 0% post consumer recycled plastic (by wt.)

This product is greater than 90% recycle-able when properly disposed of at end of life.

#### Packaging Materials

- External:
  - Corrugated Carton 412 g
  - Corrugated 326 g
- Internal:
  - Polyethylene low density 20 g
  - Molded Pulp 150 g
- The Corrugated Carton packaging material is made from 85% recycled content.
- The Molded Pulp packaging material is made from 90% recycled content.
- The Polyethylene low density packaging material is made from 85% recycled content.

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

#### Material Usage

This product does not contain any of the following substances in excess of



### Technical Specifications

regulatory limits (for reference of these limits please refer to the HP General Specification of the Environment

([http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen\\_specifications.html](http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html)):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants - may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates
- Lead and Lead compounds
- Mercuric Oxide Batteries
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) - except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Nickel finishes that release greater than 0.5  $\mu$ grams/cm<sup>2</sup>/week, measured according to EN 1811:1998, are not used on any product surface designed to be frequently handled or touched by users.

#### End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: <http://www.hp.com/go/reuse-recycle> or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: <http://www.hp.com/go/recyclers>. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

#### Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment:

Global Citizenship Report

<http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html>

Environment website

<http://www.hp.com/environment>

Eco-label certifications

<http://www.hp.com/hpinfo/globalcitizenship/environment/productdesign/ecolabels.html>



## Technical Specifications

ISO 14001 certificates:

<http://www.hp.com/hpinfo/globalcitizenship/environment/operations/envmanagement.html>

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